Attorney's Docket No. 23600.00901 - PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Menashe Shahar et al.

PROGRAMMABLE PHY FOR For:

BROADBAND WIRELESS ACCESS

SYSTEM

Serial No. 09/771,328

Filed: January 26, 2001

Examiner: Not yet assigned

Group Art Unit: Not yet

assigned

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Technology Center 2600

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents Washington, D.C. 20231

Sir:

Applicant submits herewith patents, publications or other information (listed on the attached Form PTO/SB/08A) of which Applicant is aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56. The majority of these references were cited in communications from a foreign patent office in counterpart foreign applications more than three months prior to the filing of this Information Disclosure Statement, but prior to receipt of the first Office Action on the merits of the subject application.

In accordance with 37 CFR § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this statement is, or is considered to be, material to patentability as defined in 37 CFR § 1.56(b).

In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR § 1.98 and MPEP § 609 and the Examiner is respectfully requested to consider the listed references.

No fee is believed to be due, however, the Commissioner is hereby authorized to charge any additional fees (or credit any overpayment) associated with this communication and which may be required under 37 CFR § 1.16 or §1.17 to Deposit Account No. 03-3821, referencing Attorney Docket No. 23600.00901. A duplicate sheet is attached.

Respectfully submitted,

Crosby, Heafey, Roach & May Professional Corporation

Dated: December 3, 2001

Name: John W. Carpenter Registration No. 39,129 Attorneys for Applicants

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CERTIFICATE OF MAILING - 37 C.F.R. § 1.08

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on December 3, 2001.

December 3, 2001

Date

Sandy Clayton

Substitute for Form PTO-1449

Sheet





INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary).

Complete if known		
Application Number	09/771,328	
Filing Date	January 26, 2001	
First Named Inventor	Menashe Shahar et al.	
Group Art Unit	Not Assigned	
Examiner Name	Not Assigned	
Attorney Docket Number	23600.00901	

			U.	S. PATENT DOCUMENT	'S	
Examin Cite		U.S. Patent Docu	ıment	Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where
er Initials •	No.¹	Number	Kind Code ² (if known)	Of Cited Document	Cited Document MM- DD-YYYY	Relevant Passages or Relevant Figures Appear
	A1	4,010,465		Dodington, et al	03/01/1977	
	A2	4,099,121		Fang	07/04/1978	7 7
	А3	4,385,384		Rosbury et al.	05/24/1983	EG DH
	A4	5,052,024		Moran, III et al.	09/24/1991	10 C
	A5	5,272,700		Hansen et al.	12/21/1993	no og Li
	A6	5,311,550		Fouche, et al	05/10/1994	C & Z
_	A7	5,377,035		Wang et al.	12/27/1994	2001 enter
	A8	5,408,349		Tsushima et al.	04/18/1995	
	A9	5,471,645		Felix	11/28/1995	600
	A10	5,481,542		Logston et al.	01/02/1996	6
	A11	5,481,561		Fang	01/02/1996	
	A12	5,487,099		Maekawa	01/23/1996	

	FOREIGN PATENT DOCUMENTS							
	T		Foreign Patent Docume	nt			Pages, Columns, Lines,	
Examiner Initials*	Cite No.1	Office ³	Number ⁴	Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	Т°
	B1	EP	0021 544 A1		Nuhoff	01/07/1981		<u> </u>
	B2	EP	0025 767 A1		Gregoire et al.	03/25/1981		/
	В3	CA	2,187,141		Vallee et al.	04/04/1998		<u> </u>

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T⁵
	C1	Golestani, S. (1995) "Network Delay Analysis of a Class of Fair Queueing	
		Algorithms", IEEE Journal on Selected Areas in Communication 13(6):1057-1070	
	C2	Stiliadis, D. et al. (1998) "Rate-Proportional Servers: A Design Methodology for Fair Queueing Algorithms", IEEE/ACM Transactions of Networking 6(2):164-174	
	C3	Stiliadis, D. et al. (1998) "Efficient Fair Queuing Algorithms for Packet-Switched Networks", IEEE/ACM Transactions of Networking 6(2):175-185	
	C4	Data Over Cable Interface Specifications, Cable Modem Termination System- Network Side Interface Specification, SP-CMTS-NSII01-960702 (July 2, 1996) pp. i-13	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation is not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

Substitute for Form PTO-1449	Col	mplete if known
	Application Number	09/771,328
INFORMATION DISCLOSURE	Filing Date	January 26, 2001
STATEMENT BY APPLICANT	First Named Inventor	Menashe Shahar et al.
	Group Art Unit	Not Assigned
(use as many sheets as necessary)	Examiner Name	Not Assigned

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Attorney Docket Number

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	U.S. PATENT DOCUMENTS						
Examin Cite	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where		
er Initials	No.¹	Number	Kind Code ² (if known)	Of Cited Document	Cited Document MM- DD-YYYY	Relevant Passages or Relevant Figures Appear	
	A13	5,510,859		Douglass, et al	04/23/1996		
	A14	5,557,612		Bingham	09/17/1996		
	A15	5,590,409		Sawahashi et al.	12/31/1996		
	A16	5,596,604		Cioffi et al.	01/21/1997		
	A17	5,606,664		Brown et al.	02/25/1997		
	A18	5,625,874		Uchida et al.	04/29/1997	Tec A	
	A19	5,634,206		Reed et al.	05/27/1997	E CE	
	A20	5,666,646		McCollum et al.	09/09/1997	RECEI 1 8 technology	
	A21	5,740,525		Spears	01/14/1998	N. S.	
	A22	5,724,385		Levin, et al	03/03/1998	VE Cer	
	A23	5,734,589		Kostreski et al.	03/31/1998	200 ED	
	A24	5,752,161		Jantti et al.	05/12/1998		
	A25	5,796,783		Crawford	08/18/1998	2600	
	A26	5,809,090		Buternowsky et al.	09/15/1998		

				FOREIGN PA	TENT DOCUME	NTS		
Examiner Initials*	Cite No.1	Office ³	Foreign Patent Docu Number ⁴	Kind Code ⁵	Name of Patentee or Applicant of	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵
				(if known)	Cited Document	MIMI-DD-1111	rigules Appeal	

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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	C5	Data-Over-Cable Service Interface Specifications, Cable Modem to Customer Premise Equipment Interface Specification. SP-CMC1-102-980317 (March 17, 1998) pp. i-40	
	C6	Data-Over-Cable Service Interface Specifications, Radio Frequency Interface Specification, SP-RFI-I04-980724 (July 24, 1998) pp. i-196	
	C7	Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification SP-OSSI-102-990113 (January 13, 1999) pp. i-14	
	C8	Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification Radio Frequency Interface, SP-OSSI-RFI-103-990113 (January 13, 1999) pp. i-29	

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Signature	Conside	ed

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	-		U.S. PATENT DOCUMEN		
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	A27	5,809,406	Taki et al.	09/15/1998	
	A28	5,809,427	Perreault et al.	09/15/1998	
	A29	5,818,825	Corrigan et al.	10/06/1998	
	A30	5,831,690	Lyons et al.	11/03/1998	
	A31	5,862,451	Grau et al.	01/19/1999	
	A32	5,867,528	Verbueken	02/02/1999	RECHMOODY (
	A33	5,896,414	Meyer et al.	04/20/1999	当所に
	A34	5,903,558	Jones et al.	05/11/1999	000
	A35	5,909,384	Tal et al.	06/01/1999	3N 8
	A36	5,937,005	Obuchi et al.	08/10/1999	S 2001 Center
	A37	5,940,743	Sunay et al.	08/17/1999	2001 Jenter
	A38	5,963,843	Sit et al.	10/05/1999	26
	A39	5,963,870	Chheda et al.	10/05/1999	2600
	A40	5,974,106	Dupont	10/26/1999	
	A41	5,978,855	Metz et al.	11/02/1999	
	A42	5,991,286	Labonte et al.	11/23/1999	
	A43	6,009,310	Motohashi	12/28/1999	,
	A44	6,035,008	Kim	03/07/2000	

-			F	OREIGN PA	TENT DOCUME	NTS		
Examiner Initials*	Cite No. ¹	Office ³	Foreign Patent Docum	Kind Code ⁵	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T°

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	C9	Data-Over-Cable Service Interface Specifications, Baseline Privacy Interface					
		Specification, SP-BPI-102-990319 (March 19, 1999) pp. i-88					
	C10	Data-Over-Cable Service Interface Specifications, Baseline Privacy Interface					
		Specification, SP-BPI-102-990731 (July 31, 1999) pp. i-160					

Examiner		Date	
Signature	·	Considered	

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	A45	6,052,408		Trompower et al.	04/18/2000		
	A46	6,072,839		Mondal et al.	06/06/2000		
	A47	6,075,787		Bobeck et al.	06/13/2000		
	A48	6,111,887		Daily et al.	08/29/2000		
	A49	6,112,232		Shahar et al.	08/29/2000	귍	
	A50	6,128,588		Chacon	10/03/2000	DEC 1	
	A51	6,140,911		Fisher et al.	10/31/2000	TE C	
	A52	6,141,356		Gorman	10/31/2000) I	
	A53	6,157,311		Berkovich	12/05/2000	α	
*	A54	6,160,447		Huang	12/12/2000	2001 2001	
	A55	6,172,970 B1		Ling et al.	01/09/2001		
	A56	6,185,227	14.	Sipola	02/06/2001	2600	
	A57	6,195,697 B1		Bowman-Amuah	02/27/2001	90	

				FOREIGN PA	ATENT DOCUME	NTS		
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	C11	Data-Over-Cable Service Interface Specifications, Radio Frequency Interface Specification, SP-RFIv1.1-I03-991105 (November 5, 1999) pp. i-366						
	C12	Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification SP-OSSIv1.1-D01-991115 (November 15, 1999) pp. i-81						
	C13	Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification SP-OSSIv1.1-103-001220 (December 20, 2000) p. ii						

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